

**ABSTRACT**

It is an object of the invention to effectively absorb and remove CO<sub>2</sub> in an exhaust gas generated during an industrial process for reducing an amount of exhausting CO<sub>2</sub> into the atmospheric air. The exhaust gas containing CO<sub>2</sub> is blown into the agglomerate of solid particles containing CaO and/or Ca(OH)<sub>2</sub> to contact CO<sub>2</sub> to the agglomerate for fixing CO<sub>2</sub> in the exhaust gas as CaCO<sub>3</sub>, thereby to reduce the CO<sub>2</sub> concentration in the exhaust gas. Preferably, the solid particles contain water, and more preferably, the solid particles contain surface adhesive water.

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